

Making Decisions Before Drought Strikes

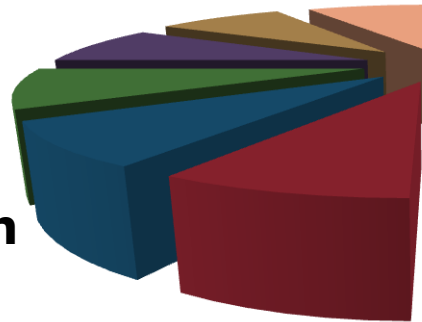


The Drought Decision Calculator



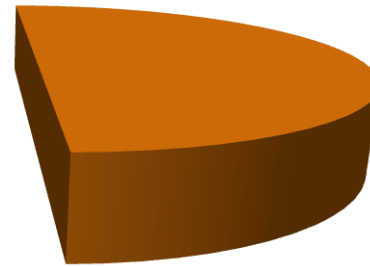
Environmental Factors that Affect Forage Growth

Other Factors:
Soil type
Solar rad.
Previous season



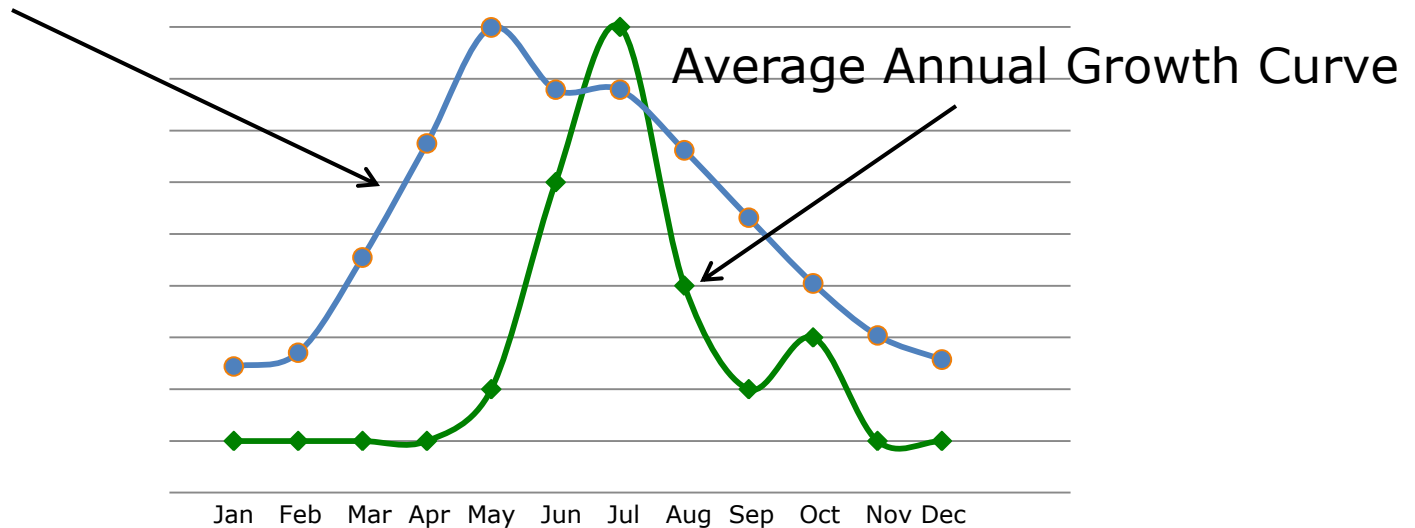
Temperature

This Season's Precipitation



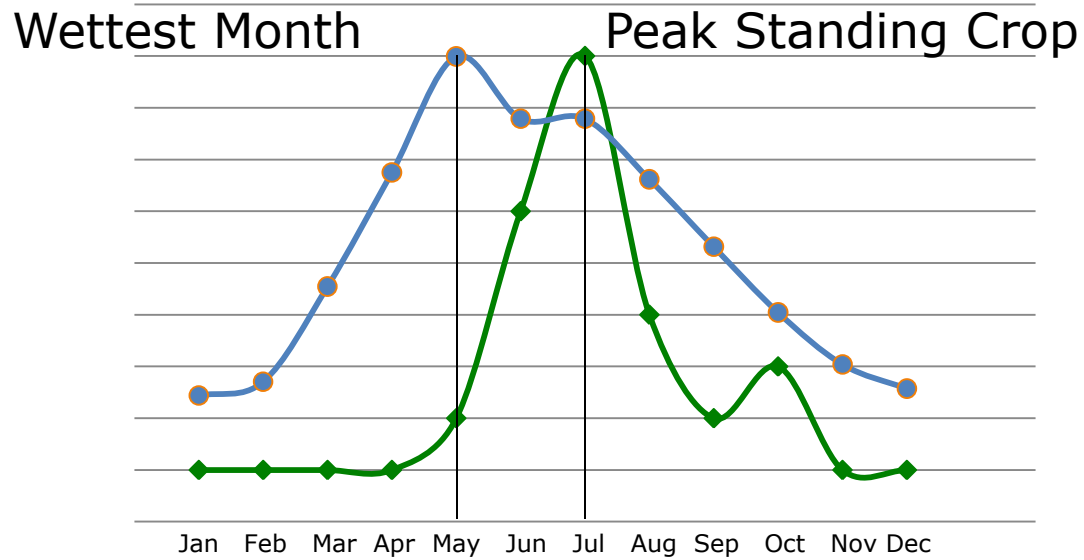
Precipitation and Forage Growth

Long-Term Average Monthly Precipitation



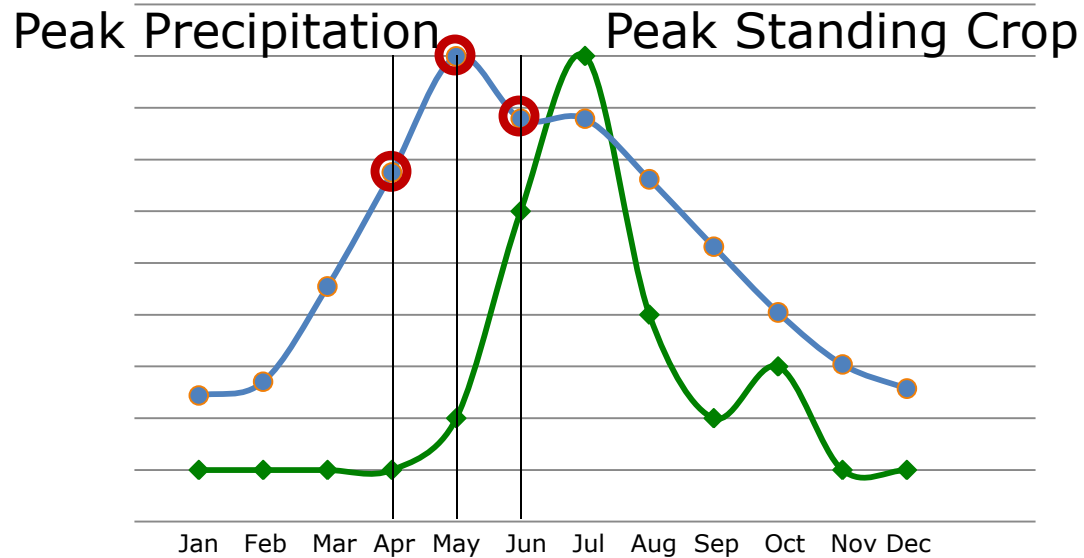
Cheyenne, WY
Average Precipitation = 15.1 inches

Precipitation and Forage Growth



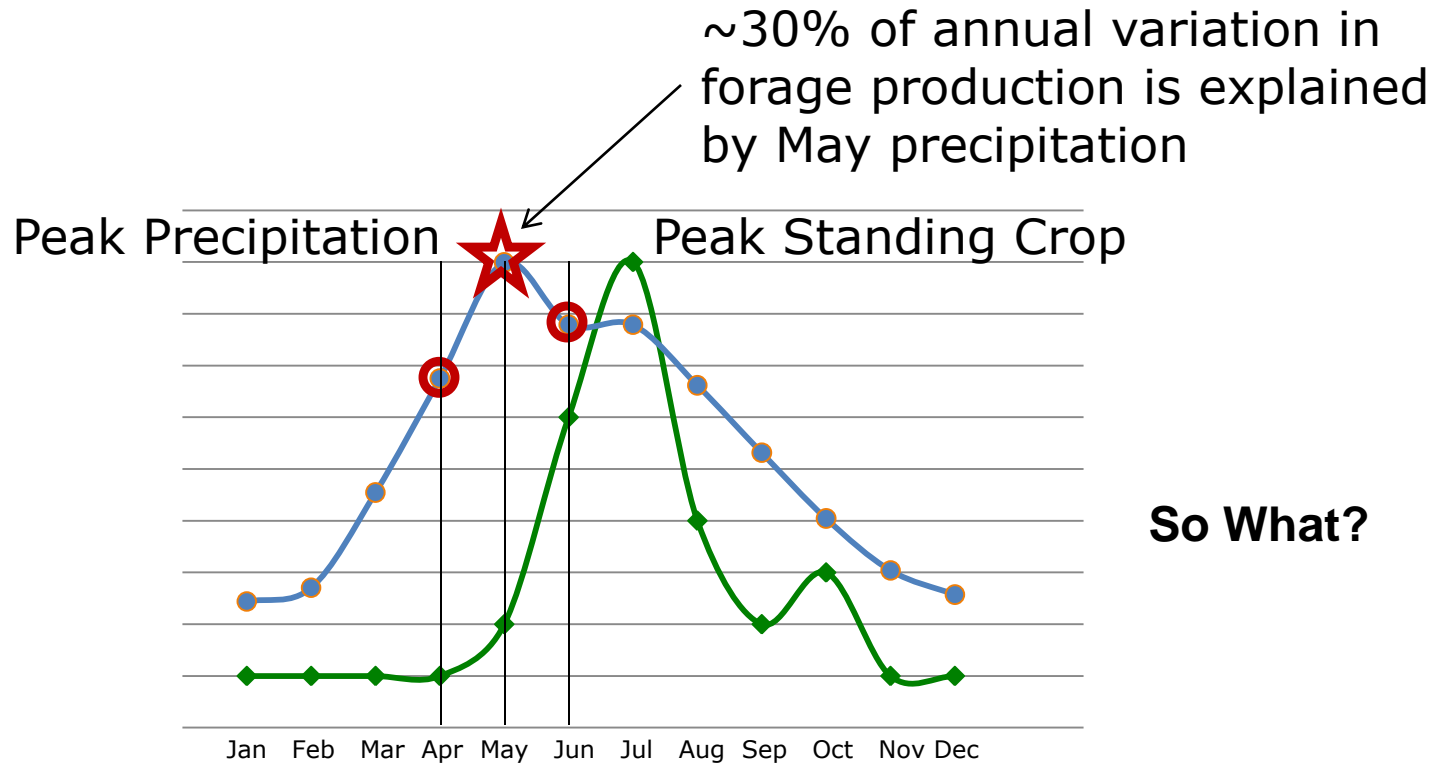
Cheyenne, WY
Average Precipitation = 15.1 inches

Precipitation and Forage Growth



Cheyenne, WY
Average Precipitation = 15.1 inches

Precipitation and Forage Growth



So What?






Cheyenne, WY
Average Precipitation = 15.1 inches

Precipitation and Forage Growth

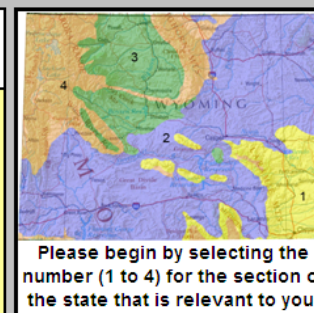
What does a knowledge of May precipitation really Mean?

Does a reduction in May precipitation by 50% mean a 50% reduction in peak standing crop?

What if both May and June have 50% of average precipitation? Does that mean there is no forage growth?

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
1	<div><h1>DROUGHT DECISION CALCULATOR</h1><p>RFA-5084 Agreement Number: 05IE08310221</p><div><div>United States Department Of Agriculture</div><div></div></div><div><div>Risk Management Agency</div><div></div></div><div><div>Agricultural Research Service</div><div></div></div><div><div> Natural Resources Conservation Service</div><div></div></div><p>Protect America's Greatest Resource: Farmers and Ranchers</p></div>																	
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	<div><div>Title</div><div>Instructions</div><div>UserData</div><div>Rainfall</div><div>Herd</div><div>Feeds</div><div>Report</div><div>PrintableReport</div><div>LivestockMarket</div><div>HayMarket</div><div>Precip</div><div>LongTerm</div><div>collatedprecip</div><div>choosesource</div></div>																	

100% of Potential



1

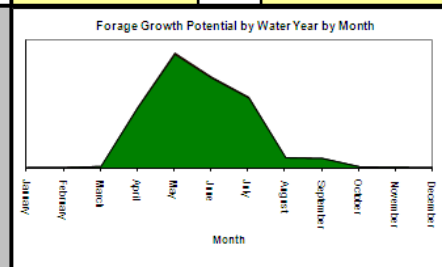
Precipitation for the Whole Year - Percent of Average 100%

The Carry Over Effect is already accounted for in the percentage shown on the right.

Percent of Normal Herd Size the Grazing Land Can Carry Based on Rainfall During Months Critical to Forage Growth

100%

Carry Over Effect* 0% Positive



*Carry Over Effect is calculated based on rainfall in certain months of the previous year but not the whole year. Carry Over Effect MAY be offset by above average rainfall in April, May, and June of the current year.

Red indicates below average rainfall. The more red during the growing season the lower the forage growth potential.

Wyoming Cheyenne test

Long-Term Average	2006	2007	Change Year
January 7.19	January 7.19	January 7.19	
February 8.53	February 8.53	February 8.53	
March 17.73	March 17.73	March 17.73	
April 28.76	April 28.76	April 28.76	
May 39.96	May 39.96	May 39.96	
June 33.95	June 33.95	June 33.95	
July 33.95	July 33.95	July 33.95	
August 28.09	August 28.09	August 28.09	
September 21.57	September 21.57	September 21.57	
October 15.22	October 15.22	October 15.22	
November 10.20	November 10.20	November 10.20	
December 7.86	December 7.86	December 7.86	
Total 253.0	Total 253.0	Total 253.0	

Rainfall Probability Tool

Choose an appropriate weather station

Adams 7 SSW

Choose the month of interest

June

Enter the amount of rainfall

0 in.

This is the percent chance you have of receiving this amount of rainfall or more in

June 81%

The rainfall probability tool only works with weather station data not user provided data.

How to Modify Weather Station Data

If you would like to use weather station data but make changes to it, please push the button and re-name the file - thanks

Push Me

To use previously saved data select from the list below

ellen

19% Reduction



Please begin by selecting the number (1 to 4) for the section of the state that is relevant to you.

1

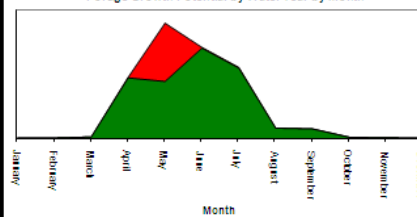
The Carry Over Effect is already accounted for in the percentage shown on the right.

Percent of Normal Herd Size the Grazing Land Can Carry Based on Rainfall During Months Critical to Forage Growth

81%

Carry Over Effect* 0% Positive

Forage Growth Potential by Water Year by Month



Red indicates below average rainfall. The more red during the growing season the lower the forage growth potential.

Precipitation for the Whole Year - Percent of Average 81%

*Carry Over Effect is calculated based on rainfall in certain months of the previous year but not the whole year. Carry Over Effect MAY be offset by above average rainfall in April, May, and June of the current year.

Wyoming

Cheyenne

test

Long-Term Average		2006		2007		Change Year
January	7.19	January	7.19	January	7.19	
February	8.53	February	8.53	February	8.53	
March	17.73	March	17.73	March	17.73	
April	28.76	April	28.76	April	28.76	
May	39.96	May	39.96	May	20.00	
June	33.95	June	33.95	June	33.95	
July	33.95	July	33.95	July	33.95	
August	28.09	August	28.09	August	28.09	
September	21.57	September	21.57	September	21.57	
October	15.22	October	15.22	October	15.22	
November	10.20	November	10.20	November	10.20	
December	7.86	December	7.86	December	7.86	
Total	253.0	Total	253.0	Total	233.0	

Rainfall Probability Tool

Choose an appropriate weather station

Adams 7 SSW

2 Choose the month of interest

June

3 Enter the amount of rainfall

0 in.

This is the percent chance you have of receiving this amount of rainfall or more in

June

81%

The rainfall probability tool only works with weather station data not user provide data.

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Push Me

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ellen

34% Reduction

Wyoming

Cheyenne

test

Long-Term Average	2006	2007	Change Year
January 7.19	January 7.19	January 7.19	
February 8.53	February 8.53	February 8.53	
March 17.73	March 17.73	March 17.73	
April 28.76	April 28.76	April 28.76	
May 39.96	May 39.96	May 20.00	
June 33.95	June 33.95	June 17.00	
July 33.95	July 33.95	July 33.95	
August 28.09	August 28.09	August 28.09	
September 21.57	September 21.57	September 21.57	
October 15.22	October 15.22	October 15.22	
November 10.20	November 10.20	November 10.20	
December 7.86	December 7.86	December 7.86	
Total 253.0	Total 253.0	Total 216.1	

Over Grazing During Drought Conditions Will Reduce Next Year's Forage Regardless of Next Year's Rainfall

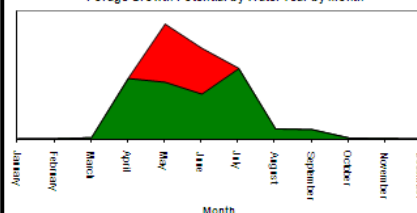
Percent of Normal Herd Size
the Grazing Land Can Carry
Based on Rainfall During
Months Critical Forage Growth

66%

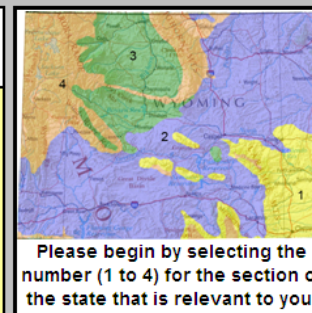
The Carry Over Effect is already accounted for in the percentage shown on the right.

Carry Over Effect* 0% Positive

Forage Growth Potential by Water Year by Month



*Carry Over Effect is calculated based on rainfall in certain months of the previous year but not the whole year. Carry Over Effect MAY be offset by above average rainfall in April, May, and June of the current year.



1

Red indicates below average rainfall. The more red during the growing season the lower the forage growth potential.

Precipitation for the Whole Year - Percent of Average 67%

Rainfall Probability Tool

Choose an appropriate weather station

Adams 7 SSW

2 Choose the month of interest

June

3 Enter the amount of rainfall

0 in.

This is the percent chance you have of receiving this amount of rainfall or more in

June

81%

The rainfall probability tool only works with weather station data not user provide data.

How to Modify Weather Station Data

If you would like to use weather station data but make changes to it, please push the button and re-name the file - thanks

Push Me

To use previously saved data select from the list below

ellen

UserData Rainfall Herd Feeds Report PrintableReport LivestockMarket HayMarket Precip LongTerm collatedprecip choosesource stored precipfinal

Drought Decision Calculator will be available soon
for the following states:

North Dakota
South Dakota
Nebraska
Montana
Wyoming
Colorado
Utah
New Mexico
Nevada